

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| L1    | 5    | (generat\$3 near (pitch contour)).clm.  | US-PGPUB                                   | ADJ              | ON      | 2007/04/28 10:50 |
| L2    | 1    | ((generat\$3 near (pitch contour)) near3 (synthesizing speech)).clm.                                  | US-PGPUB                                   | ADJ              | ON      | 2007/04/28 10:52 |
| S1    | 215  | pitch adj contour   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/04/28 10:47 |
| S2    | 40   | ((pitch adj contour) and energy) and (low adj frequency)  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/02/20 16:21 |
| S3    | 10   | ((((pitch adj contour) and energy) and (low adj frequency)) and (band adj2 noise)                     | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/02/20 16:28 |
| S4    | 2    | (((((pitch adj contour) and energy) and (low adj frequency)) and (band adj2 noise)) and interpolat\$4 | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/02/20 16:28 |
| S5    | 2312 | 704/258-269.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/02/20 16:36 |
| S6    | 0    | 704/258-269.ccls. and (pitch adj countour)  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/05/22 11:29 |
| S7    | 71   | 704/258-269.ccls. and (pitch adj contour)   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/02/20 16:37 |
| S8    | 7    | ((704/258-269.ccls. and (pitch adj contour)) and energy) and (low adj frequency)                      | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/02/20 16:43 |
| S9    | 51   | (704/258-269.ccls. and (pitch adj contour)) and (text adj2 speech)                                    | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/02/20 16:44 |
| S10   | 17   | ((704/258-269.ccls. and (pitch adj contour)) and (text adj2 speech)) and energy                       | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/02/20 16:44 |

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|     |      |   |  |    |    |                  |
|-----|------|---|--|----|----|------------------|
| S11 | 13   | ((((704/258-269.ccls. and (pitch adj contour)) and (text adj2 speech)) and energy) and frequency                                  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/20 16:47 |
| S12 | 4    | ((((704/258-269.ccls. and (pitch adj contour)) and (text adj2 speech)) and energy) and (low adj frequency)                        | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 15:30 |
| S13 | 280  | pitch and (speech adj2 text)  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 14:41 |
| S14 | 86   | (pitch and (speech adj2 text)) and energy   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 14:42 |
| S15 | 4    | ((((pitch and (speech adj2 text)) and energy) and (low adj frequency)) and interpola\$6   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 14:44 |
| S16 | 19   | ((pitch and (speech adj2 text)) and energy) and (low adj frequency)   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 14:47 |
| S17 | 14   | "5642466".URPN.   | USPAT                                      | OR | ON | 2004/02/21 15:25 |
| S18 | 0    | (synthesiz\$5 adj speech) and pitcvh  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 15:31 |
| S19 | 1071 | (synthesiz\$5 adj speech) and pitch   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 15:31 |
| S20 | 487  | ((synthesiz\$5 adj speech) and pitch) and energy  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 15:32 |
| S21 | 147  | ((((synthesiz\$5 adj speech) and pitch) and energy) and (low adj frequency)   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 15:32 |
| S22 | 86   | ((((synthesiz\$5 adj speech) and pitch) and energy) and (low adj frequency)) and interpolat\$5                                    | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 15:33 |
| S23 | 2    | (((((synthesiz\$5 adj speech) and pitch) and energy) and (low adj frequency)) and interpolat\$5) and (band adj limited adj noise) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 15:33 |

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|     |      |   |  |    |    |                  |
|-----|------|---|--|----|----|------------------|
| S24 | 83   | (((((synthesiz\$5 adj speech) and pitch) and energy) and (low adj frequency))) and interpolat\$5) and noise | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/02/21 15:35 |
| S25 | 99   | (pitch adj contour) and energy  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/20 14:59 |
| S26 | 31   | (704/258-269.ccls. and (pitch adj contour)) and energy  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/20 15:39 |
| S27 | 501  | 704/260.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/21 16:21 |
| S28 | 105  | 704/260.ccls. and noise   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/21 16:21 |
| S29 | 0    | "5490234".pn. and interpolat\$5   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/22 11:28 |
| S30 | 0    | "5490234".pn. and interpol\$5   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/22 11:28 |
| S31 | 2    | "5490234".pn.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/22 11:29 |
| S32 | 1    | 704/258-269.ccls. and (band adj limited adj noise)  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/22 11:30 |
| S33 | 2381 | 704/258-269.ccls.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/11/30 15:23 |
| S34 | 102  | S33 and (generat\$4 adj pitch)  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/11/30 15:26 |
| S35 | 145  | S33 and (generat\$4 adj2 pitch)   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/11/30 15:26 |

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|     |      |  |  |    |    |                  |
|-----|------|--|--|----|----|------------------|
| S36 | 60   | S35 and energy                                     | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/11/30 15:26 |
| S37 | 55   | S36 and frequency                                  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/11/30 15:27 |
| S38 | 133  | band adj limited adj noise                         | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/01 16:53 |
| S39 | 12   | S38 and pitch                                      | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/01 16:47 |
| S40 | 8721 | (band adj limited adj noise) or (white adj3 noise) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/01 16:57 |
| S41 | 1044 | S40 and pitch                                      | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/01 16:57 |
| S42 | 0    | S40 and (pitch adj countour)                       | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/01 16:58 |
| S43 | 123  | S40 and (generat\$5 adj2 pitch)                    | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/01 16:59 |
| S44 | 107  | S43 and synthesi\$4                                | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/01 17:00 |
| S45 | 2453 | 704/258-269.ccls.                                  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/15 13:57 |
| S46 | 864  | S45 and pitch                                      | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/15 13:58 |
| S47 | 274  | S46 and energy                                     | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/15 13:58 |

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|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| S48 | 47   | S47 and interpolates   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR  | ON | 2005/11/15 14:56 |
| S49 | 82   | S45 and (pitch adj2 contour)                                   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR  | ON | 2005/11/15 14:57 |
| S50 | 12   | S49 and (low adj frequency)                                    | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR  | ON | 2005/11/15 14:58 |
| S51 | 7    | S50 and energy   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR  | ON | 2005/11/15 14:58 |
| S52 | 2453 | 704/258-269.ccls.  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR  | ON | 2005/11/15 17:02 |
| S53 | 30   | S52 and ((impulse adj response adj filter) or (ir adj filter)) | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR  | ON | 2005/11/15 17:03 |
| S54 | 13   | S53 and pole   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR  | ON | 2005/11/15 17:03 |
| S55 | 3230 | pitch (contour or \$3line or path)                             | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | ADJ | ON | 2007/04/27 11:13 |
| S56 | 49   | (generat\$3 or creat or develop\$3) near2 S55                  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | ADJ | ON | 2007/04/27 11:13 |
| S57 | 4031 | pitch (contour or \$3line or path)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/04/27 11:13 |
| S58 | 67   | (generat\$3 or creat or develop\$3) near2 S57                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/04/27 11:25 |

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|     |    |   |   |     |    |                  |
|-----|----|---|---|-----|----|------------------|
| S59 | 4  | S58 and (low frequency)                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/04/27 11:29 |
| S60 | 24 | S58 and noise   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/04/27 11:30 |
| S61 | 1  | S58 and ((add\$3 or increas\$3 or<br>boost\$3) near3 noise) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/04/27 11:33 |
| S62 | 4  | S58 and pole  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/04/27 11:34 |